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THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT NO.: 7,152,423 B2

DATED: December 26, 2006

INVENTORS: SCHMITZ

DOCKET NO.: LIP038

Attn: Certificate of Correction Branch
Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Certificate
JAN 24 2007
of Correction

PETITION FOR CERTIFICATE OF CORRECTION
UNDER 37 C.F.R. 1.322

Dear Sirs:

Guido Schmitz, the Applicant of the above-identified patent, through its attorneys, hereby petitions for issuance of a Certificate of Correction in the above-identified patent. A Certificate of Correction (PTO form 1050) is enclosed, in duplicate. The Certificate of Correction is required to correct a significant printing error occurring in Claims 1, 8, 11, 12, 13, 14, 15 and 19, as follows:

Claim 1, line 19: After "the" delete [oven] and insert --open--.

Claim 8, line 2: After "in" delete [tat] and insert --that--.

Claim 11, line 4: After "level" delete [wit] and insert --with--.

Claim 12, line 4: After "of" delete [to] and insert --the--.

Claim 12, line 6: After "opening," delete [alter] and insert --after--.

Claim 13, line 4: After "in" delete [to] and insert --the--.

Claim 14, line 2: After "that," delete [into] and insert --in the--.

Claim 15, line 2: After "a" delete [shall] and insert --shaft--.

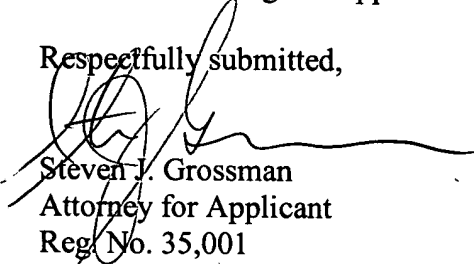
JAN 25 2007

Claim 19, line 13: After "removed" delete [trough] and insert --through--.

A copy of the Amendment to the Claims dated February 16, 2006 is enclosed which reflects the correct language.

It is believed this error occurred through the fault of the Patent Office. Thus, this Certificate of Correction should be issued without charge to Applicants.

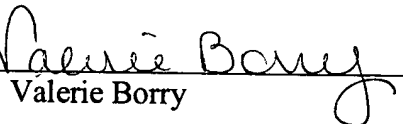
Respectfully submitted,


Steven J. Grossman
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Manchester, NH 03101

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Attn: Certificate of Correction Branch, Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450 on 1/17/2007, at Manchester, New Hampshire.

By


Valerie Borry

JAN 25 2007

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 7,152,423 B2

DATED : December 26, 2006

INVENTOR(S) : SCHMITZ

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

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Claim 19, line 13: After "removed" delete [trough] and insert --through--.

MAILING ADDRESS OF SENDER (Please do not use customer number)

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PATENT NO. 7,152,423 B2

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UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

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INVENTOR(S) : SCHMITZ

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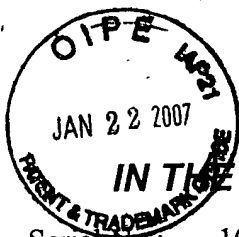
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No.: 10/801,094

Examiner: William E. Tapolcai

Inventor: Guido Schmitz

Art Unit: 3744

Filing Date: March 15, 2004

Docket No.: LIP038

Title: Cooling Apparatus for Cooling and Presentation of Ice Cream

Customer No: 32047

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
ATTN: Examiner William E. Tapolcai
FAX: 571-273-8300

CERTIFICATE OF FACSIMILE TRANSMISSION

I hereby certify that this correspondence is being transmitted via facsimile to the United States Patent and Trademark Office, Attn: Examiner William E. Tapolcai, Via Fax: 571-273-8300, on February 16, 2006.

By


April Davis

RESPONSE UNDER 37 C.F.R. §1.111

Sir:

This is in response to the Office action mailed August 16, 2005. A petition for a three month extension of time accompanies this response. Please charge our Deposit Account No. 50-2121 for any necessary additional extension of time fees not otherwise provided for.

This response includes the following:

- **Amendments to the Claims** beginning on page 2; and
- **Remarks** beginning on page 7.

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AMENDMENTS TO THE CLAIMS

The following listing of claims shall replace all prior listings and versions of claims in the application.

Listing of Claims

1. (Currently Amended) Refrigerating device for storing and presenting ice cream, with a heat-insulating housing, where the housing displays a housing opening and a storage device with a receiving compartment for ice cream, where the housing essentially surrounds the receiving compartment completely and the storage device is mounted in the housing in rotating fashion, and where a heat exchanger for generating cold air is assigned to the housing and can be connected to a refrigerating unit located inside or outside the housing, such that the ice cream in the receiving compartment can be refrigerated by the cold air generated,

~~characterized in that~~ wherein the storage device is designed as an insert that can be fitted ~~and/or or~~ removed through the housing opening or both,

wherein the housing encompasses at least one lateral door for sealing off a housing opening designed as an ice cream removal opening, and

wherein the insert is dimensioned in such a way that it can be passed through the open door and wherein the insert is laterally open over its entire height.

2. (Cancelled)

3. (Original) Refrigerating device according to claim 1, characterized in that the insert is dimensioned in such a way that it can be passed through a housing opening designed as a cover.

4. (Original) Refrigerating device according to claim 1, characterized in that means are provided for interrupting the rotation of the insert, and in that the means can be switched by opening the at least one door assigned to the ice cream removal opening, interrupting the rotation of the insert.

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5. (Original) Refrigerating device according to claim 1, characterized in that the ice cream receiving compartment protrudes laterally from the housing, at least in the area of its upper end.

6. (Original) Refrigerating device according to claim 1, characterized in that the insert protrudes from the housing wall laterally to its axis of rotation over part of its circumference.

7. (Original) Refrigerating device according to claim 1, characterized in that the insert displays axially oriented rotating areas, about which the insert can be rotated, forming an axial axis of rotation, and in that the insert is mounted, at least at one end of the axis of rotation, in a movable holding device.

8. (Original) Refrigerating device according to claim 7, characterized in that a drive unit is located in extension of the axis of rotation of the insert.

9. (Original) Refrigerating device according to claim 1, characterized in that the insert displays at least one shaft end that can be connected in detachable and positive fashion to a corresponding transmission element driven by a drive motor, and in that manual actuating means are provided for moving the transmission element, or a bearing located opposite it, for changing the connection status of the transmission element to the shaft end of the insert, and in that the actuating means can be operated from outside the housing or after removing a cover plate.

10. (Original) Refrigerating device according to claim 9, characterized in that the connection between the shaft and the transmission element can be disconnected by moving the transmission element.

11. (Withdrawn) Refrigerating device according to claim 1, characterized in that the heat exchanger surrounds the insert over part of its circumference in the housing.

12. (Original) Refrigerating device according to claim 1, characterized in that the heat exchanger extends at least partly over the height of the ice cream receiving compartment and

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ends at least approximately level with an upper border of the ice cream receiving compartment, or displays at least roughly half the height of the ice cream receiving compartment of the insert.

13. (Original) Refrigerating device according to claim 1, characterized in that a selector switch is provided for the types of ice cream located in different segments of the insert, the operation of which permits positioning of the insert in such a way that the selected type of ice cream can be removed through the removal opening, after opening the at least one door, where appropriate.

14. (Original) Refrigerating device according to claim 1, characterized in that at least one fan circulates at least a partial stream of the cooling air essentially horizontally around at least part of the circumference of the insert or radially in the direction of the insert.

15. (Original) Refrigerating device according to claim 1, characterized in that, in the area of the ice cream removal opening, at least a partial stream of the cooling air is directed essentially horizontally onto the at least one door.

16. (Original) Refrigerating device according to claim 1, characterized in that the insert displays a shaft or a shaft projection, about which the insert can be rotated, and at least one plate as the lower border of the ice cream receiving compartment, and in that at least two segment walls are located on the at least one plate to divide the ice cream receiving compartment into adjacent segments.

17. (Original) Refrigerating device according to claim 16, characterized in that the segment walls can be fastened on the insert in detachable fashion.

18. (Withdrawn) Refrigerating device according to claim 1, characterized in that the insert displays a shaft or a shaft end, about which the insert can be rotated, and optionally displays lateral delimiting walls, and in that the insert displays at least two segmental inserts, each of which displays two lateral dividing walls arranged at an angle to each other, and at least

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one plate segment at the bottom relative to the axis of rotation, and in that the segmental inserts can be fixed in position on the insert in detachable fashion.

19. (New) Refrigerating device for storing and presenting ice cream, with a heat-insulating housing, where the housing displays a housing opening and a storage device with a receiving compartment for ice cream, where the housing essentially surrounds the receiving compartment completely and the storage device is mounted in the housing in rotating fashion, and where a heat exchanger for generating cold air is assigned to the housing and can be connected to a refrigerating unit located inside or outside the housing, such that the ice cream in the receiving compartment can be refrigerated by the cold air generated,

wherein the storage device is designed as an insert that is laterally open and that can be fitted or removed through the housing opening or both,

wherein the ice cream receiving compartment protrudes laterally from the housing, at least in the area of its upper end, and

wherein the insert protrudes from the housing wall laterally to its axis of rotation over part of its circumference and is laterally covered by the door.

20. (New) Refrigerating device for storing and presenting ice cream, with a heat-insulating housing, where the housing displays a housing opening and a storage device with a receiving compartment for ice cream, where the housing essentially surrounds the receiving compartment completely and the storage device is mounted in the housing in rotating fashion, and where a heat exchanger for generating cold air is assigned to the housing and can be connected to a refrigerating unit located inside or outside the housing, such that the ice cream in the receiving compartment can be refrigerated by the cold air generated,

wherein the storage device is designed as an insert that can be fitted or removed through the housing opening or both,

wherein the insert is dimensioned in such a way that it can be passed through an upper housing opening having a closure that is designed as a cover,

wherein the insert is laterally open to enable removal of frozen ice cream,

wherein the insert displays at least an upper shaft end and at least one lower shaft end, the upper shaft end can be connected in detachable and positive fashion to a corresponding

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transmission element driven by a drive motor which is arranged at the upper end of the shaft, and in that manual actuating means are provided for moving the transmission element being arranged at the upper end of the shaft for changing the connection status of the transmission element to the shaft end of the insert, and in that the actuating means can be operated from outside the housing or after removing a cover plate, so that the insert can pass through the housing opening when the cover is detached.

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REMARKS

Responsive to the Office action mailed November 22, 2005, Applicants provide the following remarks. As of the August 16th Office action, claims 1-18 were pending in the application, with claims 11 and 18 being withdrawn from consideration. Reexamination and allowance of the application is respectfully requested.

Amendments to the Claims

Independent claim 1 has been amended to incorporate the subject matter of claim 2. Claim 2 has, accordingly, been cancelled. Additionally, "the at least one door" has been more clearly defined as being a "lateral door" as described in paragraph [0009] of the published application. Similarly, the insert has been more clearly defined as being "laterally open over its entire height," as shown, for example, in FIGS. 1A, 1B, 2A, and 2B and described, e.g., in paragraph [0032] of the published patent application. No new matter is believed introduced by this amendment.

New independent claim 19 has been added, generally reciting the subject matter of original claims 1, 5, and 6, and disclosed, for example, in paragraphs [0032], [0042] and FIGS. 1 through 4 of the published patent application. Accordingly, no new matter is believed entered by this amendment. Additionally, Applicants note that claims 5 and 6, the subject matter of which has been incorporated into new claim 19, have not been rejected over the art. As such, it is respectfully submitted that new independent claim 19 is allowable over the art of record.

New independent claim 20 has also been added, generally directed at the subject matter of original claims 1, 3, and 9, as well as, for example, paragraph [0011], [0018] through [0020], [0032] and FIGS. 1 through 4 of the published patent application. No new matter is, therefore, believed entered by this amendment. This claim is also believed to be allowable over the art of record.

Rejections Under 35 U.S.C. §112

Claims 1-10, and 12-17 were rejected under 35 U.S.C. §112, first paragraph, as failing to enable the claimed invention. In particular, the Examiner first argued that the claimed heat exchanger is not shown or described. In this regard, Applicants respectfully submit that a heat exchanger is a structure which is well known by those having skill in the art. However, Applicants do not merely rely upon the knowledge of skilled artisans. Referring, for example, to paragraph [0048] of the published application, and FIGS. 3 and 4, the heat exchanger 6 includes

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cooling coils 26. The cooling coils 26 are shown as being disposed around the insert 9, and disclosed as being capable of exchanging a fluid refrigerating medium with a refrigerating unit 7, e.g., via connections 25. Therefore, as clearly shown and described, the heat exchanger may include cooling coils 26 capable of carrying a fluid refrigerant medium, and disposed around the insert 9. Clearly, circulating the fluid refrigerant medium from a refrigerating unit 7 through the cooling coils 26 generates cold air to cool the ice cream.

Additionally, the Examiner argued that the insert, indicated by reference numeral 9, is not clear, especially in terms of how the insert may be filled with ice cream outside of the housing 2. Particularly the Examiner noted that the insert did not appear to provide an enclosure which can hold liquid ice cream mix. Applicants respectfully submit that the claimed invention is directed at an apparatus for storing and presenting ice cream which has already been manufactured, and not for actually manufacturing ice cream from a mix. Accordingly, the claimed invention recites a structure which may store ice cream by maintaining previously manufactured ice cream in a frozen condition and which may present the frozen ice cream, e.g., at buffets, ice cream parlors and the like. The claimed invention may, therefore, allow the ice cream to be presented in a much more favorable manner. In this regard, Applicants direct the Examiner attention to, for example, paragraph [0005] of the published application which teaches "ice cream can, for example, be placed on the insert in blocks." Accordingly, it is not necessary for the insert to enclose a liquid, but rather only support a solid mass of frozen ice cream.

Concerning the feature of the receiving compartment protruding laterally from the housing, Applicants respectfully direct the Examiner's attention to FIGS. 1B, 2B, and 3, as well as paragraph [0014] of the published applications. Consistent with the drawings and specification, the "insert preferably protrudes laterally from the housing over its entire height. The door can reach around the insert on the upper and/or lower side and seal the protruding area against the housing." Accordingly, the insert protrudes laterally from the housing and the doors 8, which define a portion of the receiving compartment 5, also protrude laterally from the housing 2 to surround the insert 9.

Finally, Applicants direct the Examiner's attention to paragraph [0052] of the published application, which describes the operation of the selector switch 29, depicted in FIG. 2B. As described, "different types of ice cream [can be] filled into the individual segments of the insert 9." "[T]he lower plate [] can be moved into different target positions by the selector switch, each

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of which is assigned to a segment” which may contain a different type of ice cream. Accordingly, the selector switch may allow the “different types of ice cream filled into the individual segments of insert 9 [to be] selectively positioned in the area of the ice cream removal opening 10 of the housing 2.”

In summary, Applicants respectfully submit that the claims pending in the present application are fully enabled by the specification. Accordingly, Applicants respectfully request that the rejection of claims 1-10 and 12-17 under 35 U.S.C. §112, first paragraph, be withdrawn upon reconsideration.

Rejections Under 35 U.S.C. §102

Claims 1-3, 7-10, 12, 16, and 17 were rejected under 35 U.S.C. §102(b) as being anticipated by Parker (U.S. Patent No. 1,609,915). Applicants respectfully traverse this rejection.

Parker is directed at an apparatus for making ice cream by freezing cream and other substances. See, line 2. The disclosed apparatus generally includes a casing body 1, which is open at its upper end. See, lines 14-15. A can 12, having an open upper end which is capped by a removable cover 13, is provided for receiving a substance to be frozen. See, lines 35-40. In operation, “appropriate mixture [to be frozen] is poured in the can 12, and the dasher 21 is placed in position [within the can 12]” and the can 12 is rotated relative to the dasher 21. See, lines 97-99.

By contrast to the teachings of Parker, claim 1, as amended, recites:

Refrigerating device for storing and presenting ice cream, with a heat-insulating housing, where the housing displays a housing opening and a storage device with a receiving compartment for ice cream, where the housing essentially surrounds the receiving compartment completely and the storage device is mounted in the housing in rotating fashion, and where a heat exchanger for generating cold air is assigned to the housing and can be connected to a refrigerating unit located inside or outside the housing, such that the ice cream in the receiving compartment can be refrigerated by the cold air generated,

wherein the storage device is designed as an insert that can be fitted or removed through the housing opening or both,

wherein the housing encompasses at least one lateral door for sealing off a housing opening designed as an ice cream removal opening, and

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wherein the insert is dimensioned in such a way that it can be passed through the open door and wherein the insert is laterally open over its entire height. (Emphasis added)

It is respectfully submitted that Parker fails to disclose a housing encompassing at least one lateral door allowing the insert to be fitted or removed from the housing, or the aspect of the insert being laterally open over its entire height. These features may, for example, allow the insert to be easily inserted and removed and may also allow ice cream to be very easily removed through the large opening of the housing over the entire vertical dimension of the insert. These aspects of the invention of independent claim 1 are not taught, or even suggested, by Parker. In fact, Parker is not even susceptible to being modified to provide these aspects. For example, Parker discloses that the can 12 is completely surrounded by the refrigerant conduit 30, eliminating the possibility of a lateral door. Similarly, as the can 12 must be able to contain a liquid mix to be frozen, the can 12 may not be provided laterally open over its entire height, as required by claim 1. Withdrawal of the rejection of independent claim 1, and claims 2-3, 7-10, 12, 16, and 17 ultimately depending thereupon, is respectfully requested in view of the amendments and remarks herein.

Rejections Under 35 U.S.C. §103

Claim 4 was rejected under 35 U.S.C. §103(a) as being obvious over the combined teachings of Parker and Gonzalez, Sr. (U.S. Patent No. 6,370,798). Applicants respectfully submit that Gonzalez is non-analogous art and may not properly be used in making out an obviousness rejection.

In regard to this rejection, it is noted that the claimed invention is directed at an apparatus for storing and presenting ice cream. However, Gonzalez is directed at a vacuum assisted clothes dryer which "generally comprises a fixed frame, a rotatable drum within the fixed frame for holding and tumbling clothing within a vacuum sealable interior space." Col. 1, l. 65-67. "In at least one embodiment, a plurality of heating pads are provided about the interior of the drum for imparting increased temperature to the clothing held therein." Col. 2, l. 8-10.

Those skilled in the art would recognize from even a cursory review of Gonzalez that the apparatus disclosed therein may be useful in connection with drying or caring for clothing. However, one skilled in the art simply would not look to clothes dryer for any teaching or suggestion related to any aspect of ice cream storage or presentation. Applicants respectfully

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submit, therefore, that the clothes dryer disclosed in Gonzales would be non-analogous art, which may not properly form the basis of an obviousness rejection.

As the Examiner knows, "two criteria have evolved for determining whether prior art is analogous: (1) whether the art is from the same field of endeavor, regardless of the problem addressed, and (2) if the reference is not within the field of the inventor's endeavor, whether the reference is still reasonably pertinent to the particular problem with which the inventor is involved." *In re Clay*, 966 F.2d 656, 23 USPQ2d 1058 (Fed. Cir. 1992). The inventors' field of endeavor in the present application is the field ice cream storage and presentation. Gonzales is completely devoid of any discussion or suggestion that in any way relates to ice cream. The clothes dryer of Gonzales cannot be considered within the Applicants' field of endeavor.

A reference may be "reasonably pertinent," even if it is in a different field of endeavor if "it is one which, because of the matter with which it deals, logically would have commended itself to an inventor's attention in considering his problem." *Id.* A person having ordinary skill in the art would not have considered references dealing with clothes dryer in an attempt to solve the problem of ice cream storage and presentation. Accordingly, Applicants respectfully submit that Gonzales should be considered as non-analogous art, and that the rejection of claims under 35 USC § 103(a) based on Parker in view of Gonzales should be withdrawn upon the basis that Parker fails to teach or suggest the claimed invention.

Even assuming, however, that Gonzalez could be considered analogous art, Gonzalez fails to remedy the deficiencies of the primary reference. For example, Gonzalez does not teach an insert which is "laterally open over its entire height." Accordingly, even considering the combined teachings of Parker and Gonzales, the cited references fail to teach, or even suggest every aspect of independent claim 1, let alone of claim 4 depending thereupon. Withdrawal of this rejection is respectfully requested upon reconsideration.

Finally, claims 14, and 15 were rejected under 35 U.S.C. §103(a) as being obvious over Parker in view of Anderson (U.S. Patent No. 2,555,624). Anderson is directed at an "attachment for mechanically agitating ice cream while being frozen in a home freezer." Col. 1, l. 2-4. Generally, the apparatus includes a "container 41 ... of any desired size [which] is provided with the outturned flange 42 at its open end upon which rests the cover 43 provided with a gasket 44 and secured thereto by means of the bolts 45." Col. 2, l. 4-8. "Surrounding the container 41 and spaced therefrom by means of the radial fins 53 is the cylindrical casing 54." "Extending

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downwardly from the band 39 are the inturned arms 56 which support the flange 42 of the container [41]." Col. 2, l. 17-24. In use, the container 41 and the casing 54 are disposed within a freezer, such as is employed for storing frozen foods in the home.

Applicants respectfully submit that the combined teachings of Parker and Anderson clearly fail to teach every aspect of claims 14 and 15, let alone all of the elements of independent claim 1, upon which claims 14 and 15 ultimately depend. For example, Parker and Anderson fail to teach, or even suggest, the claimed "housing encompass[ing] at least one lateral door" or an insert which "is laterally open over its entire height." In view of these deficiencies, Applicants respectfully request that the rejection of claims 14 and 15 over the combined teachings of Parker and Anderson be withdrawn upon reconsideration.

Having overcome the outstanding rejections of independent claim 1, which is believed to be generic to all of the species claimed in this application, Applicants respectfully submit that previously withdrawn claims 11 and 18 are also in condition for allowance and should be rejoined in this application.

Having overcome all of the outstanding rejections, Applicants respectfully submit that the application is now in condition for allowance. Early allowance is respectfully requested.

In the event that there are any fee deficiencies, or additional fees are payable, please charge, or credit any overpayment to, our Deposit Account No. 50-2121.

Respectfully submitted,



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